SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

United States Patent Application combined declaration and power of attorney

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **QUASI-PARALLEL MULTICHANNEL RECEIVERS FOR WIDEBAND ORTHOGONAL FREQUENCY DIVISION MULTIPLEXED COMMUNICATIONS AND ASSOCIATED METHODS**.

The specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 120 or 365(c) of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

No such claim for priority is being made at this time.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Aldous, Alan	Reg. No. 31,905	Greenwold Dendlov A	D - 17 24 24		
Anderson, Robert D.	Reg. No. 33,826	Greenwald, Bradley A. Harris, Robert J.	Reg. No. 34,341	Perdok, Monique M.	Reg. No. 42,989
Anglin, J. Michael	Reg. No. 24,916		Reg. No. 37,346	Peret, Andrew R.	Reg. No. 41,246
Arora, Suneel	Reg. No. 42,267	Huter, Jeffrey B.	Reg. No. 41,086	Peterson, David C.	Reg. No. 47,857
Bacon, Shireen		Jackson Huebsch, Katharine A.	Reg. No. 47,670	Plimier, Michael D.	Reg. No. 43,004
Beekman, Marvin L.	Reg. No. 40,494	Jurkovich, Patti J.	Reg. No. 44,813	Proksch, Michael A.	Reg. No. 43,021
Bianchi, Timothy E.	Reg. No. 38,377	Kalis, Janal M.	Reg. No. 37,650	Prout, William F.	Reg. No. 33,995
Billion, Richard E.	Reg. No. 39,610	Kalson, Seth	Reg. No. 40,670	Reif, Kevin A.	Reg. No. 36,381
	Reg. No. 32,836	Klima-Silberg, Catherine I.	Reg. No. 40,052	Sayles, Crystal D.	Reg. No. 44,318
Black, David W.	Reg. No. 42,331	Kluth, Daniel J.	Reg. No. 32,146	Schumm, Sherry W.	Reg. No. 39,422
Brake, Edward	Reg. No. 37,784	Lacy, Rodney L.	Reg. No. 41,136	Schwegman, Micheal L.	Reg. No. 25,816
Brennan, Thomas F.	Reg. No. 35,075	Lam, Peter	Reg. No. 44,855	Seddon, Ken	Reg. No. 43,105
Burge, Ben	Reg. No. 42,372	Lin, Issac	Reg. No. 50,672	Seeley, Mark	Reg. No. 32,299
Chadwick, Robin A.	Reg. No. 36,477	Lundberg, Steven W.	Reg. No. 30,568	Shah, Ami P.	Reg. No. 42,143
Chen, George	Reg. No. 50,807	Lundmark, David C.	Reg. No. 42,815	Simon, David	Reg. No. 32,756
Choi, Glen	Reg. No. 43,546	Maki, Peter C.	Reg. No. 42,832	Skabrat, Steve	Reg. No. 36,279
Clark, Barbara J.	Reg. No. 38,107	Malen, Peter L.	Reg. No. 44,894	Speier, Gary J.	Reg. No. 45,458
Clise, Timothy B.	Reg. No. 40,957	Martinez, Anthony	Reg. No. 44,223	Steffey, Charles E.	Reg. No. 25,179
Cochran, David R.	Reg. No. 46,632	Mates, Robert E.	Reg. No. 35,271	Steiner, Paul E.	Reg. No. 41,326
Cool, Kenneth J.	Reg. No. 40,570	McCrackin, Ann M.	Reg. No. 42,858	Stutman-Horn, Joni D.	
Dahl, John M.	Reg. No. 44,639	Mehrle, Joseph P.	Reg. No. 45,535	Tong, Viet V.	Reg. No. 42,173
DeLizio, Andrew	Reg. No. 52,806	Mennemeier, Larry	Reg. No. 51,003	Tran, David	Reg. No. 45,416
Draeger, Jeffrey S.	Reg. No. 41,000	Muller, Mark V.	Reg. No. 37,509	Viksnins, Ann S.	Reg. No. 50,804
Drake, Eduardo E.	Reg. No. 40,594	Nagy, Paul	Reg. No. 37,896	Wells, Calvin	Reg. No. 37,748
Embretson, Janet E.	Reg. No. 39,665	Nama, Prakash	Reg. No. 44,255		Reg. No. 43,256
Faatz, Cindy	Reg. No. 39,973	Nelson, A. James	Reg. No. 28,650	Willardson, Michael	Reg. No. 50,856
Forrest, Bradley A.	Reg. No. 30,837	Nicholls, Dennis A.	Reg. No. 42,036	Winkle, Robert G.	Reg. No. 37,474
Gagne, Christopher	Reg. No. 36,142	Nielsen, Walter W.	•	Woessner, Warren D.	Reg. No. 30,440
Gorrie, Gregory J.	Reg. No. 36,530	Padys, Danny J.	Reg. No. 25,539	Wong, Sharon	Reg. No. 37,760
Greaves, John N.	Reg. No. 40,362	Parker, Lanny	Reg. No. 35,635	Yates, Steven D.	Reg. No. 42,242
Green, Sharmini N.	Reg. No. 41,410	Parker, J. K.	Reg. No. 44,281	Young, Charles K.	Reg. No. 39,435
Greenberg, Robert A.	Reg. No. 44,133	Peacock, Gregg A.	Reg. No. 33,024		
	10g. 10. 44,133	reacock, Gregg A.	Reg. No. 45.001		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary. Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402

Telephone No. (612)373-6900

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of joint inventor numb	er 1 :		Alex	ande	er A.	Malts	sev
Citizenship:	Russ	ian I	rede	ratio	n		_
Post Office Add		_			_		

Verhne-Pecherskaya Str., 1-7 Nizhny Novgorod 603163

Russian Federation

Alexander A. Maltsev

Residence: Nizhny Novgorod Russian Federation

Date: 17 December, 2003

X Additional inventors are being named on separately numbered sheets, attached hereto.

Filing Date: not assigned

Signature:

Full Name of joint inventor number 2: Ali S. Sadri Citizenship: United States of America Residence: San Diego, CA Post Office Address: 11835 Carmel Mountain Road Suite 1304-306 San Diego, CA 92128 Signature: Date: Ali S. Sadri Full Name of joint inventor number 3: Sergey E. Sergeyev Citizenship: **Russian Federation** Residence: Nizhny Novgorod Russian Federation Post Office Address: Vaneeva Str., 19-28 Nizhny Novgorod 603105 Russian Federation Date: 17.12, 2003 7. Signature: Sergey E. Sergeyev Full Name of joint inventor number 4: Alexander N. Belonozhkin Citizenship: **Russian Federation** Residence: Nizhny Novgorod Russian Federation Post Office Address: N.V. Naberezhnaya Str., 1-16 Nizhny Novgorod 603001 Russian Federation Signature: Date: __ /7.12. 2003 Alexander N. Belonozhkin Full Name of joint inventor number 5: Vadim S. Sergeyev Citizenship: Russian Federation Residence: Nizhny Novgorod Russian Federation Post Office Address: Vaneeva Str., 19-28

Date: 17.12.2003

Nizhny Novgorod 603105 Russian Federation

Vadim S. Sergeyev

§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
 - (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SCHWEGMAN ■ LUNDBERG ■ WOESSNER ■ KLUTH

United States Patent Application combined declaration and power of attorney

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

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415	
Aldous, Alan Reg. No. 31,905 Greenwald, Bradley A. Reg. No. 34,341 Perdok, Monique M.	Reg. No. 42,989
Anderson, Robert D. Reg. No. 33,826 Harris, Robert J. Reg. No. 37,346 Peret, Andrew R.	Reg. No. 41,246
Anglin, J. Michael Reg. No. 24,916 Huter, Jeffrey B. Reg. No. 41,086 Peterson, David C.	Reg. No. 47,857
Arora, Suneel Reg. No. 42,267 Jackson Huebsch, Katharine A. Reg. No. 47,670 Plimier, Michael D.	Reg. No. 43,004
Bacon, Shireen Reg. No. 40,494 Jurkovich, Patti J. Reg. No. 44,813 Proksch, Michael A.	Reg. No. 43,021
Beekman, Marvin L. Reg. No. 38,377 Kalis, Janal M. Reg. No. 37,650 Prout. William F.	Reg. No. 33,995
Bianchi, Timothy E. Reg. No. 39,610 Kalson, Seth Reg. No. 40,670 Reif, Kevin A	Reg. No. 36,381
Billion, Richard E. Reg. No. 32,836 Klima-Silberg, Catherine I. Reg. No. 40,052 Savies, Crystal D.	Reg. No. 44,318
Black, David W. Reg. No. 42,331 Kluth, Daniel J. Reg. No. 32,146 Schump Sherry W	Reg. No. 39,422
Brake, Edward Reg. No. 37,784 Lacy, Rodney L. Reg. No. 41,136 Schwegman Micheal	
Brennan, Thomas F. Reg. No. 35,075 Lam, Peter Reg. No. 44,855 Seddon Ken	Reg. No. 43,105
Burge, Ben Reg. No. 42,372 Lin, Issac Reg. No. 50,672 Seeley Mark	Reg. No. 32.299
Chadwick, Robin A. Reg. No. 36,477 Lundberg, Steven W. Reg. No. 30,568 Shah Ami P.	Reg. No. 42,143
Chen, George Reg. No. 50,807 Lundmark, David C. Reg. No. 42,815 Simon David	Reg. No. 32,756
Choi, Glen Reg. No. 43,546 Maki, Peter C. Reg. No. 42,832 Skahrat Steve	Reg. No. 36,279
Clark, Barbara J. Reg. No. 38,107 Malen, Peter L. Reg. No. 44,894 Speier Gary I	Reg. No. 45,458
Clise, Timothy B. Reg. No. 40,957 Martinez, Anthony Reg. No. 44 223 Steffey Charles R	Reg. No. 25,179
Cochran, David R. Reg. No. 46,632 Mates, Robert E. Reg. No. 35 271 Steiner Poul R	Reg. No. 41,326
Cool, Kenneth J. Reg. No. 40,570 McCrackin, Ann M. Reg. No. 42,858 Shutman-Horn Loni D.	
Dahl, John M. Reg. No. 44,639 Mehrle, Joseph P. Reg. No. 45,535 Tong Viet V	
DeLizio, Andrew Reg. No. 52,806 Mennemeier, Larry Reg. No. 51,003 Tran, David	Reg. No. 45,416
Draeger, Jeffrey S. Reg. No. 41,000 Muller, Mark V. Reg. No. 37 509 Vilening Ann S.	Reg. No. 50,804
Drake, Eduardo E. Reg. No. 40,594 Nagy, Paul Reg. No. 37,896 Wells, Calvin	Reg. No. 37,748
Embretson, Janet E. Reg. No. 39,665 Nama, Prakash Reg. No. 44,255 Willardson, Michael	Reg. No. 43,256
Faatz, Cindy Reg. No. 39,973 Nelson, A. James Reg. No. 28,650 Winkle, Robert G.	Reg. No. 50,856
Formest Bradley A Dog No 20 027 No. 10 10 10 10 10 10 10 10 10 10 10 10 10	Reg. No. 37,474
Gaone Christopher Dec No 26142 Nich W.	Reg. No. 30,440
Gorrie Gregory I Pag No 26 520 P. 1. D. 1	Reg. No. 37,760
Greaves, John N. Pag No 40 262 Pales I.	Reg. No. 42,242
Green, Sharmini N. Reg. No. 41,410 Parker, J. K. Reg. No. 33,024	Reg. No. 39,435
Greenberg, Robert A. Reg. No. 44,133 Peacock, Gregg A. Reg. No. 45,001	

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Schwegman, Lundberg, Woessner & Kluth, P.A. to the contrary. Please direct all correspondence in this case to Schwegman, Lundberg, Woessner & Kluth, P.A. at the address indicated below:

P.O. Box 2938, Minneapolis, MN 55402

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Telephone No. (612)373-6900

Full Name of joint inventor	number 1: Alexander A. Maltsev	
Citizenship:	Russian Federation	Residence: Nizhny Novgorod Russian Federation
Post Office Address:	Verhne-Pecherskaya Str., 1-7	residence. Themis itorgorod Russian Federation
	Nizhny Novgorod 603163	·
	Russian Federation	
Signature:		Date:
<u> </u>	Alexander A. Maltsev	
_		

Citizenship: Post Office Address:	United States of America 11835 Carme/Mountain Road Suite 1304-106 San Diego CA 92128	Residence: San Diego, CA
Signature:	Ali S. Sadri	Date: Dec, 18-03
Full Name of joint inventor Citizenship: Post Office Address:	Russian Federation Vaneeva Str., 19-28	Residence: Nizhny Novgorod Russian Federation
Signature:	Nizhny Novgorod 603105 Russian Federation Sergey E. Sergeyev	Date:
Ciuzensnip;	r number 4: Alexander N. Belonozhk Russian Federation N.V. Naberezhnaya Str., 1-16 Nizhny Novgorod 603001	din Residence: Nizhny Novgorod Russian Federation
Post Office Address: Signature:	Russian Federation	
Post Office Address: Signature:	Russian Federation N.V. Naberezhnaya Str., 1-16 Nizhny Novgorod 603001 Russian Federation Alexander N. Belonozhkin	Residence: Nizhny Novgorod Russian Federation

§ 1.56 Duty to disclose information material to patentability.

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- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.